

AWIPS APPLICATION INSTALLATION INSTRUCTION NOTE 6, Revision A
(for Electronics Systems Analyst, Information Technology Officers, & AWIPS Focal Points)
Maintenance, Logistics, and Acquisition Division
W/OPS12: JCS

SUBJECT : AvnFPS 2.0 Full Installation Instructions

PURPOSE : To issue AvnFPS 2.0 **Full** software installation instructions.

EFFECTIVITY : All CONUS and OCONUS AWIPS WFO sites must install AvnFPS 2.0 release. This mod note does not cover delta upgrades for AvnFPS 2.0 alpha or beta sites. Those procedures will be addressed in a separate mod note. The list of sites not covered by this mod note are provided.

PRE-INSTALLATION REQUIREMENTS : For full install: OB2 must be installed on your AWIPS system.

AUTHORIZATION : The authority for this modification note is Request for Change AB862.

VERIFICATION STATEMENT : The AvnFPS 2.0 Full installation procedures were tested and verified on OS&T's NMTW test platform in Silver Spring, MD and the following sites:

Boston/Taunton, MA (BOX)
Dodge City, KS (DDC)
Amarillo, TX (AMA)
Caribou, ME (CAR)
Hastings, NE (GID)
Jackson, MS (JAN)

ESTIMATED TIME REQUIRED : Approximately 15 minutes.

SECURITY LEVEL : root

EFFECT ON OTHER INSTRUCTIONS : AWIPS Application Installation Instruction Note 6, Revision A supersedes AWIPS Application Installation Instruction Note 6. Changes include the contacts for technical and installation support are the Meteorological Development Laboratory (MDL) not the Network Control Facility (NCF), and an updated beta site list.

TECHNICAL SUPPORT : For questions or problems regarding these installation instructions or installing this release, please contact:
Carl Mccalla at (301) 713-1065 x169
Iris Boon at (301) 713-1613 x162
Mark Oberfield at (301) 713-0056 x192

GENERAL:

The AvnFPS 2.0 **Full** installation upgrade kit includes five files pushed to each site's /data/local/avnfps directory labeled:

installAVNFPS2.0.sh - dated Jan 16
AVNFPS2.0.OB3delta.tar.gz - dated Jan 16
upgradeAVNFPS2.0.OB3.sh - dated Jan 16
AVNFPS2.0.OB2.tar.gz - dated Feb 9
AVNFPS2.0.delta.tar.gz - dated Feb 9

AvnFPS 2.0 Delivered Functionality

NOTE: Refer to the web address provided below for the following AvnFPS 2.0 (full) related material:

- Introduction
- AvnFPS2.0 User's Guide
- Release Notes
- Installation Instructions
- Frequently Asked Questions (FAQs)/AvnFPS Troubleshooting
- Support
- Completing and Returning the AvnFPS2.0 Feedback Assessment Form (Only to be completed and returned by AvnFPS Alpha and Beta Sites)
- AvnFPS ListServer
- Sample AvnFPS Install Log (i.e., on an OB3 system)
- Sample AvnFPS Deinstall Log
- Links to Other AvnFPS Builds

<http://www.nws.noaa.gov/mdl/icwf/AVNFPS2.0/AvnFPS2.0.html>

- AvnFPS is now configured to ingest GFE gridded data which provides the ability to monitor and compare Wind and weather Grids from GFE to the TAFs.
- A graphical TAF editor, using METAR, TAF and AVN/NGMMOS has been added.
- The capability of an office to create and use smart tools.
- A tools directory is new in this release. A tool is a module called from the TAF editor that decodes current forecasts, modifies data, and puts the resulting forecast back into the text editor in AVNFPS 2.0.
- Guidance/METARs formatted like a TAF and the text is color coded for VFR/IFR, etc. has been added.

- Ability to resize windows several ways.
- Additional AvnFPS data sources have been added. In addition to monitoring METARs, AvnFPS 2.0 also monitors lightning data (cloud to ground strikes in AWIPS), and MOS lightning forecasts (MOS lightning probabilities).
- User interface enhancements.
- To learn more about these new features, go to the AvnFPS2.0 User's Guide at:
<http://www.nws.noaa.gov/mdl/icwf/avnfps2/>

General Installation Guidelines:

- MDL upgrade support is available from 8 a.m. to 4:30 p.m. EST, Monday through Thursday.
- OCONUS sites attempting the installation outside the set support hours, must receive prior authorization from the MDL site support team. Sites requesting after hour installation support should coordinate through their AWIPS regional focal point. If the MDL team support is not notified ahead of time, they will assume a scheduled OCONUS site will follow the set support hours.

INSTALLATION PROCEDURE

Refer to the following web address for AvnFPS 2.0 Full installation instructions:

http://www.nws.noaa.gov/mdl/icwf/avnfps2/avnfps2.0_install.htm

CAUTION

OB3 binaries were built with a newer version (i.e., 3.2) of the gcc compiler than the version (2.95) used to generate some of the AvnFPS1.0 binaries. As a result, some AvnFPS1.0 binaries will fail to execute or properly execute when loaded on an AWIPS Build OB3 system. Therefore, in order to have a functioning version of AvnFPS on a AWIPS OB3 system, it is MANDATORY to install or to upgrade to AvnFPS2.0.

Sites running OB2 are required to install AvnFPS 2.0 and then, immediately after upgrading to AWIPS OB3, update the AvnFPS 2.0 binaries. The OB3 install instructions will direct a site through the binary upgrade steps. Should a site install OB3 prior to installing AvnFPS 2.0, the AvnFPS2.0 installation script will select the proper binaries.

ALPHA/BETA SITE LIST

The following site installs are **not** covered by this mod note.

AFC - Anchorage, AK	AFG - Fairbanks, AK	AJK - Juneau, AK
AMA - Amarillo, TX	BOX - Boston/Taunton	MA BUF - Buffalo, NY
CAR - Caribou, ME	CSH - Charleston, SC	CTP - Central PA WFO
DDC - Dodge City, KS	DLH - Duluth, MN	GID - Hastings, NE
HFO - Honolulu, HI	JAN - Jackson, MS	LOT - Chicago WFO
MOB - Mobile, AL	MRX - Morristown, TN	PBZ - Pittsburgh, PA
PQR - Portland, OR	SGF - Springfield, MO	SHV - Shreveport, LA
TBW - Tampa, FL	TSA - Tulsa, OK	

REPORTING INSTRUCTIONS:

Report the completed modification using the Engineering Management Reporting System (EMRS) according to the instructions in NWS Instruction 30-2104, Maintenance Documentation, Part 4, Appendix F. Include the following information on the EMRS Report:

Block #	Block Type	Information
5	Description	Install AvnFPS 2.0
7	Equipment Code	AWIPS
8	Serial Number	1
15	Comments	Downloaded and installed AvnFPS version 2.0 I.A.W. AWIPS Application Installation Instruction Note 6 Revision A.
17A	Mod. No.	AS6A

A sample EMRS report is provided as attachment A.

Mark S. Paese
Director, Maintenance, Logistics, and Acquisition Division

Attachment A - EMRS Report Sample

A26 Detail Form - ESCM2, SILVER SPRING, MD :: JOHN MERHI - Microsoft Internet Explorer

New A26 Commit A26 Place on Hold Copy A26 Delete A26 Detail Report Document Summary Help

GENERAL INFORMATION

NEW RECORD WFO* PHI Document No.* PHI40213000

1. Open Date 02/13/2004 Open Time 08:00 2. Op Initials WSH 3. Response Priority
☐ Immediate ☐ Low
☐ Routine ☒ Not Applicable 4. Close Date 02/13/2004 Close Time 08:30

5. Maintenance Description 482 characters left AWIPS
Install AvnFPS 2.0

EQUIPMENT INFORMATION

6. Station ID* PHI 7. Equipment Code AWIPS 8. Serial Number 001 9. TM M 10. AT M 11. How Mal 999

Alert: Time Remaining: (For Block 12 use only)

13. PARTS USAGE and CONFIGURATION MANAGEMENT REPORTING

ASN	Vendor Part No. (New Part)	Serial Number (Old Part)	Serial Number (New Part)

New Row Delete Row

14. WORKLOAD INFORMATION

a. Routine	b. Non-Routine	c. Travel	d. Misc	e. Overtime
Hours Minutes	Hours Minutes	Hours Minutes	Hours Minutes	Hours Minutes

30

MISCELLANEOUS INFORMATION

15. Maintenance Comments 659 characters left
Downloaded and Installed AvnFPS 2.0 I.A.W. AWIPS Application Instruction Note 6, Revision A

16. Tech Initials JB

17. SPECIAL PURPOSE REPORTING INFORMATION

a. Mod No.	b. Mod Act/Deact Date	c. Block C	d. Trouble Ticket No.	e. Block E
AS6A	2/13/2004			

Commit A26 Place on Hold Copy A26 New A26 Cancel

Done Internet